

**From:** [Geiger, William](mailto:Geiger.William@epa.gov)  
**To:** [Hasson, Robert](mailto:Hasson.Robert@epa.gov)  
**Subject:** FW: Metal Bank Sheet Pile Wall (UNCLASSIFIED)  
**Date:** Monday, February 24, 2014 3:03:31 PM

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William A. Geiger  
Remedial Project Manager  
Hazardous Site Cleanup Division (3HS21)  
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1650 Arch Street  
Philadelphia, PA 19103-2029  
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-----Original Message-----

From: Fatzinger, Travis T NAP [<mailto:Travis.T.Fatzinger@usace.army.mil>]  
Sent: Wednesday, February 05, 2014 9:42 AM  
To: Geiger, William  
Subject: RE: Metal Bank Sheet Pile Wall (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Will,

I'm far from an expert but I will try to address the question.

The biggest concern with future use around the sheet pile wall would be any surcharge load placed on the soil behind it. AMEC performed an analysis on the as built wall in Design Memorandum 120508. In the DM AMEC determined that a surcharge loading of 150 psf behind the wall was permissible. Note, they also allowed for loads up to 300 psf but these were temporary construction loads that should not be allowed for long term use on the site. Loads that could exceed the design surcharge would include piles of scrap metal from the neighboring facility, stock piles of construction materials, and stock piles of soil, stone, road salt, etc. Any future use in the vicinity should include analysis by a licensed Professional Engineer.

The soil behind the wall should not be excavated or disturbed, especially in the location of the dead man anchors. I expect this would not be a problem due to the nature of the site. Additionally, no structures such as docks or walkways should be attached to the wall.

Any changes to the water side portion of the wall including excavation of the dredge line or changes to the bathymetry that would promote scour in front of the wall must also be avoided.

Thanks,

Travis Fatzinger  
Geotechnical Engineer  
100 Penn Square East  
Philadelphia PA 19107  
215-656-6681

-----Original Message-----

From: Geiger, William [<mailto:Geiger.William@epa.gov>]  
Sent: Friday, January 31, 2014 10:33 AM  
To: Fatzinger, Travis T NAP

Subject: [EXTERNAL] Metal Bank Sheet Pile Wall

Travis, thanks again for attending the meeting for Metal Bank on Monday. Your input was very helpful.

We are in the process of issuing an ESD requiring Institutional Controls that would prohibit activities that could damage or interfere with the sheetpile wall (among other remedial components at the Site). We received a comment from the PRP group asking for examples of activities that could potentially interfere with the effectiveness of the sheet pile wall.

Since you seem to be the expert on this matter, I was wondering if you could give me some examples.... Besides the obvious of running a bulldozer through it or something.... Thanks

-Will

William A. Geiger

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